



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
10903 New Hampshire Avenue
Document Control Center – WO66-G609
Silver Spring, MD 20993-0002

November 2, 2016

Tornier
Mr. Damien Guillaud
Regulatory Affairs Specialist
161, rue lavoiseir - Montbonnot
38334 Saint Ismier Cedex France

Re: K082120

Trade/Device Name: Aequalis Reversed Fracture Shoulder Prosthesis

Regulation Number: 21 CFR 888.3660

Regulation Name: Shoulder joint metal/polymer semi-constrained cemented prosthesis

Regulatory Class: Class II

Product Code: PHX, KWS

Dated: July 24, 2008

Received: July 28, 2008

Dear Mr. Guillaud:

This letter corrects our substantially equivalent letter of October 24, 2008.

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical

device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

Lori A. Wiggins -S

for

Mark N. Melkerson

Director

Division of Orthopedic Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): K082120

Device Name: *Aequalis Reversed Fracture Shoulder Prosthesis*

Indications For Use:

The *Aequalis Reversed Fracture Shoulder Prosthesis* is indicated for patients with a functional deltoid muscle as a total shoulder replacement for the relief of pain or significant disability following arthropathy associated to a grossly deficient rotator cuff joint :

- in case of traumatic or pathologic conditions of the shoulder resulting in fracture of the glenohumeral joint, including humeral head fracture and displaced 3-or 4-part proximal humeral fractures, or
- in case of bone defect in proximal humerus.

The *Aequalis Reversed Fracture Shoulder Prosthesis* is also indicated for prosthetic revisions with a grossly deficient rotator cuff joint when other treatments or devices have failed.

When during the primary surgery the glenoid bone stock appears to be insufficient to bear the reversed glenoid components or when glenoid bone fracture occurs during the surgical procedures, the hemiprosthesia adaptor and the union screw can be adapted to the humeral components in order to transform the *Aequalis Reversed Fracture Shoulder Prosthesis* into a non reversed hemi-prosthesis.

When, in case of revision of a *Aequalis Reversed Fracture Shoulder Prosthesis*, the glenoid bone stock appears to be insufficient to implant a base plate and a sphere of *Aequalis Reversed* range again, the use of the hemi-prosthesia adaptor and the union screw allows for the transformation of the *Aequalis Reversed Fracture Shoulder Prosthesis* into a non reversed hemi-prosthesis in order to avoid the revision of the humeral components.

The *Aequalis Reversed Fracture Shoulder* humeral stem is used in association with the glenoid components of the *Aequalis Reversed Shoulder Prosthesis*.

The *Aequalis Reversed Fracture Shoulder* humeral stem is for cemented use only.

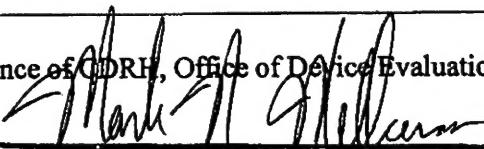
Prescription Use X
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use _____
(21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDER, Office of Device Evaluation (ODE)


(Division Sign-Off)

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Tornier

Division of General, Restorative,
and Neurological Devices

Section 4

510(k) Number K082120

Summary of Safety and Effectiveness information

510(k) Premarket Notification – Aequalis Reversed Fracture Shoulder Prosthesis

Regulatory authority: Safe Medical Devices Act of 1990, 21 CFR 807.92

1) Device name

Trade name: **AEQUALIS Reversed Fracture Shoulder Prosthesis**

Common name: Total-Shoulder System and Hemi-Shoulder System

Classification name: Shoulder joint metal/polymer semi-constrained cemented prosthesis

2) Submitter

Tornier

Rue Doyen Gosse

38330 Saint Ismier - France

3) Company contact

Tornier

Mr Damien Guillaud

Regulatory affairs Specialist

161, rue Lavoisier - Montbonnot

38334 Saint Ismier Cedex - France

Tel: 00 33 4 76 61 35 00

Fax: 00 33 4 76 61 35 59

e-mail : damien.guillaud@tornier.fr

4) Classification

Device class: Class II

Classification panel: Orthopedic

Product code: KWS

5) Equivalent / Predicate device

Aequalis Reversed Shoulder Prosthesis, TORNIER SA, K030941, K041873, K050316, K061439.

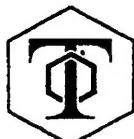
Aequalis Fracture Shoulder System, TORNIER SA, K994392, K003728, K032679, K043077, K060209.

Delta Xtend Reverse Shoulder System, DEPUY, K062250, K071379.

Delta Shoulder, DEPUY, K021478

Aequalis Reversed Adapter, TORNIER SA, K071948

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Tél. : 33 (0)4 76 61 35 00
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S.A.S. au capital de 288 000 €
SIRET : 070 501 275 000 13
R.C.S. : 070 501 275
CODE APE : 331 B

SIEGE SOCIAL : rue du Doyen Gosse - 38330 SAINT-ISMIER - FRANCE

TORNIER

Implants Chirurgicaux

6) Device description

The *Aequalis Reversed Fracture Shoulder Prosthesis* is intended to be used to relieve pain or significant disability following massive cuff-tear associated to arthropathy and following massive cuff-tear arthropathy. In this case, the rotator muscles of the shoulder (supraspinatus, infraspinatus, teres minor and long head of the biceps) are no more useful for mobility, and only the deltoid (for abduction and external rotation) and the subscapularis (for internal rotation) are functional.

Therefore, the usual goal of such surgery is to restore the shoulder joint to facilitate its working condition and to reduce or eliminate pain. The *Aequalis Reversed Fracture Shoulder Prosthesis* is intended to accomplish these goals. Its reversed design allows to medialize the center of rotation of the shoulder, lengthening the deltoid muscle lever arm and its *Aequalis Fracture Shoulder* humeral stem-like design allows to facilitate the bone reconstruction and improve the tuberosity healing and fixation.

The *Aequalis Reversed Fracture Shoulder Prosthesis* is a semi-constrained system composed of a humeral and a glenoid parts.

7) Materials

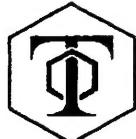
The humeral component, the base of the glenoid implant and the screw of the glenoid sphere are manufactured from Titanium alloy.

The metaphyseal plug, the humeral spacer, the tightening screw for humeral spacer, the hemi-prosthesis adaptor, the adaptor union screw and the glenoid sphere are manufactured from Cobalt-Chromium alloy.

The hydroxylapatite coating conforms to the ASTM standard F 1185. The coating is performed by BioCoat, Inc. according to their Master File MAF-339.

Metaphyseal inserts are made of ultra-high molecular weight polyethylene (UHMWPE).

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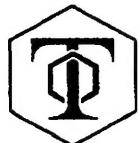
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